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**CLASSIFICATION AND CORRELATION
OF
THE SOILS OF**

**HENDRICKS COUNTY
INDIANA**

JUNE 1971



**U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
MIDWEST REGIONAL TECHNICAL SERVICE CENTER
LINCOLN, NEBRASKA**

UNITED STATES DEPARTMENT OF AGRICULTURE
Soil Conservation Service
Midwest Regional Technical Service Center
Lincoln, Nebraska 68508

Classification and Correlation
of the Soils of
Hendricks County, Indiana

This correlation was prepared by R. I. Turner in conference with R. I. Dideriksen, D. R. Ruesch, K. H. Langlois, and D. P. Franzmeier during the week of March 1-4, 1971. The final correlation is based on the first draft of the soil survey manuscript, field correlation, correlation samples, some laboratory data and notes obtained during the final field review June 1-5, 1970. This correlation was later reviewed by members of the Indiana SCS Staff and personnel from the Indiana Experiment Station.

Symbol	Field Name	Manuscript Map Symbol*	Approved Name
108 108-A-0	Washtenaw silt loam	Br	) Brookston silt loam,) overwash
147-A-0 377-A-0	Cope silt loam	Bs	) Brookston silty clay loam)
148-A-0 3148	Brookston silt loam Brookston silty clay loam))
3148-A-0 3149-A-0))
3377-A-0 3378-A-0	Kokomo silty clay loam Cope silty clay loam Brookston silty clay loam)))
141-A-1 142-A-1	Bethel silt loam Crosby silt loam	CrA	) Crosby silt loam,) 0 to 3 percent slopes
142-B-1 142-B-2))
142v-A-1 142v-B-2	Crosby silt loam, variant))
143-A-1 144-A-1	Celina silt loam Miami silt loam))
5142-A-1 5142-B-1	Crosby loam))

* Each soil symbol consists of 2 or 3 letters: for example Br, CrA, or FcA. If slope is given in the soil name, the third letter, A, B, C, D, E, or F indicates the class of slope. Symbols without a slope letter are those of nearly level soils. A final number 2 or 3 in the symbol indicates that the soil is eroded or severely eroded respectively.

Symbol	Field Name	Manuscript Map Symbol	Approved Name
143-B-1	Celina silt loam	CsB2) Crosby-Miami silt loams,) 2 to 6 percent slopes,) eroded)
143-B-2			
373s-B-2	Xenia silt loam,		
373s-B-3	shallow phase		
371-A-0	Delmar silt loam	FcA) Fincastle silt loam,) 0 to 3 percent slopes))))))
371-A-1			
372-A-1	Fincastle silt loam		
372-B-1			
372-B-2			
372s-A-1	Fincastle silt loam,		
372s-B-1	shallow phase		
372s-B-2			
335-A-1	Fox silt loam	FoA) Fox loam,) 0 to 2 percent slopes))
5145-A-1	Fox loam, kame phase		
5335-A-1	Fox loam		
8335-A-1	Fox sandy loam		
335-B-1	Fox silt loam	FoB2) Fox loam,) 2 to 6 percent slopes,) eroded)))))
335-B-2			
335-B-3			
5145-B-2	Fox loam, kame phase		
5335-B-1	Fox loam		
5335-B-2			
8335-B-1	Fox sandy loam		
8335-B-2			
145-C-1	Fox silt loam, kame phase	FoC2) Fox loam,) 6 to 12 percent slopes,) eroded)))))
145-C-2			
335-C-1	Fox silt loam		
335-C-2			
445-C-1	Ockley silt loam		
445-C-2			
5335-C-1	Fox loam		
5335-C-2			

Symbol	Field Name	Manuscripts Map Symbol	Approved Name
145-C-3	Fox silt loam, kame phase	FxC3	) Fox clay loam,
335-C-3	Fox silt loam		) 6 to 12 percent slopes,
335-D-2			) severely eroded
335-D-3)
445-C-3	Ockley silt loam)
445-D-1)
445-D-2)
5335-C-3	Fox loam)
13	Eel silt loam	Gn	) Genesee silt loam
13-A-0)
13c-A-0	Eel silt loam, dissected)
14	Genesee silt loam)
14-A-0)
14c-A-0	Genesee silt loam, dissected)
3013-A-0	Eel silty clay loam)
5013	Eel loam)
5014-A-0	Genesee loam)
5014c-A-0	Genesee loam, dissected)
5014H-A-0	Genesee loam, high bottom)
5	Riverwash	Gs	) Genesee sandy loam,
6013-A-0	Eel fine sandy loam		) sandy variant
6014	Genesee fine sandy loam)
6014-A-0)
144-G-1	Miami silt loam	HeF	) Hennepin loam,
146-F-1	Hennepin silt loam		) 25 to 50 percent slopes
146-F-2)
146-F-3)
146-G-1)
146-G-2)
146-G-3)
5146-F-1	Hennepin loam)
5146-F-2)
5146-G-1)

Symbol	Field Name	Manuscript Map Symbol	Approved Name
3228	Patton silty clay loam	Mc	Mahalasville silty clay loam, clayey subsoil variant
484-A-1	Martinsville silt loam	MeA	) Martinsville loam,
5484-A-1	Martinsville loam		) 0 to 2 percent slopes
484-B-1	Martinsville silt loam	MeB2	) Martinsville loam,
484-B-2			) 2 to 6 percent slopes,
484-C-2			) eroded
893-B-1	Uniontown silt loam)
894-B-2)
5484-B-1	Martinsville loam)
5484-B-2)
6484-B-1	Martinsville fine sandy loam)
6484-B-2)
6544-B-1)
6544-B-2)
144-B-1	Miami silt loam	MmB2	) Miami silt loam,
144-B-2			) 2 to 6 percent slopes,
5144-B-2	Miami loam		) eroded
144-C-1	Miami silt loam	MmC2	) Miami silt loam,
144-C-2			) 6 to 12 percent slopes,
144-ck-2	Miami silt loam, hummocky phase		) eroded
)
144-D-1	Miami silt loam	MmD2	) Miami silt loam,
144-D-2			) 12 to 18 percent slopes,
374-D-1	Russell silt loam		) eroded
374-D-2)
144-E-1	Miami silt loam	MmE2	) Miami silt loam,
144-E-2			) 18 to 25 percent slopes,
144-E-3			) eroded
144-F-1)
146-E-1	Hennepin silt loam)
146-E-2)
146-E-3)
374-E-1	Russell silt loam)
374-E-2)
374-E-3)
5146-E-1	Hennepin loam)
5146-E-2)
143-B-3	Miami silt loam	MsB3	) Miami clay loam,
144-B-3			) 2 to 6 percent slopes,
			) severely eroded
144-C-3	Miami silt loam	MsC3	) Miami clay loam,
184-C-3	Kendallville silt loam		) 6 to 12 percent slopes,
374-C-3	Russell silt loam		) severely eroded

Symbol	Field Name	Manuscript Map Symbol	Approved Name
144-D-3	Miami silt loam	MsD3	) Miami clay loam,
144-D-4			) 12 to 18 percent slopes,
374-D-3	Russell silt loam		) severely eroded
445-A-1	Ockley silt loam	OcA	) Ockley silt loam,
5445-A-1	Ockley loam		) 0 to 2 percent slopes
445-B-1	Ockley silt loam	OcB2	) Ockley silt loam,
455-B-2			) 2 to 6 percent slopes,
			) eroded
184-A-1	Kendallville silt loam	OsA	Ockley silt loam, loamy substratum, 0 to 2 percent slopes
184-B-1	Kendallville silt loam	OsB2	) Ockley silt loam,
184-B-2			) loamy substratum,
184-C-1			) 2 to 6 percent slopes,
184-C-2			) eroded
768	Ragsdale silt loam	Ra	) Ragsdale silty clay loam
898	Patton silt loam)
3898	Patton silty clay loam)
3898-A-0)
3899-A-0	Unnamed silty clay loam)
448-A-0	Mahalasville silty clay loam	Rn	) Rensselaer clay loam
3488-A-0)
3449-A-0	Abington silty clay loam)
3488	Rensselaer silty clay loam)
3489-A-0	Needham silty clay loam)
5448-A-0	Westland loam)
5488-A-0	Mahalasville loam)
3448	Westland silty clay loam)
3448-A-0)
374-B-1	Russell silt loam	RuB2	) Russell silt loam,
374-B-2			) 2 to 6 percent slopes,
374-B-3			) eroded
5374-B-1	Russell loam)
373-C-2	Xenia silt loam	RuC2	) Russell silt loam,
374-C-1	Russell silt loam		) 6 to 12 percent slopes,
374-C-2			) eroded

Symbol	Field Name	Manuscript Map Symbol	Approved Name
12	Shoals silt loam	Sh	) Shoals silt loam
12-A-0)
12c-A-0	Shoals silt loam, dissected)
12w-A-0	Shoals silt loam, wet)
18	Sloan silt loam)
3012-A-0	Shoals silty clay loam)
3018	Sloan silty clay loam)
3018-A-0)
5012-A-0	Shoals loam)
332-A-1	Homer silt loam	Wh	) Whitaker silt loam
442-A-1	Sleeth silt loam)
482-A-1	Whitaker silt loam)
482-B-2)
892-A-1	Henshaw silt loam)
5332-A-1	Homer loam)
5482-A-1	Whitaker loam)
373-A-1	Xenia silt loam	XeA	) Xenia silt loam,
374-A-1	Russell silt loam		) 0 to 2 percent slopes
373-B-1	Xenia silt loam	XeB2	) Xenia silt loam,
373-B-2			) 2 to 6 percent slopes,
373-B-3			) eroded

Series established:

None

Series made inactive or dropped:

None

Instructions on map compilation:

No other published soil survey joins Hendricks County.

Maps were joined with those of Boone County which were recently completed.

Roads should be shown as indicated on county maps included with the legend and field sheets.

Small acreage of Rodman gravelly loam has been removed from the field sheets and replaced with an escarpment symbol other than bedrock. If any of the following symbols are on the field sheets, they should be shown as mentioned above: 9336-A-1, 9336-G-1, 9336-G-2, 5336-G-1, 336-F-1, 336-E-1, 336-E-2, 9336-E-2, 145-E-2, 5335-E-2, 335-E-2, 9336-F-1, 9336-F-2.

Instructions for map compilation (cont.):

The following special and spot symbols appear on the field sheets. The agreed-to disposition in regards to the published soil survey is shown in the right hand column. Either these symbols or some other standard approved symbol should be used on the published map.













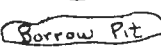





Signs and Symbols:

<u>Roads</u>	<u>Color</u>	<u>Symbol</u>	<u>Symbol Recommended for Publication</u>
Four-lane Highway or Interstate	Red		
Hard surface or gravel	Red		
Unimproved, poor motor, or private			
<u>Road designations</u>			
Interstate			
U.S.			
State			
County			eliminate
<u>Railroad</u>			
Single track	Red		
Double track	Red		
Abandoned	Red		eliminate
Overpass--Underpass (break lower features)			
Buildings	Black		
Church	Black		
Small airport			
School	Black		
Cemetery	Black		

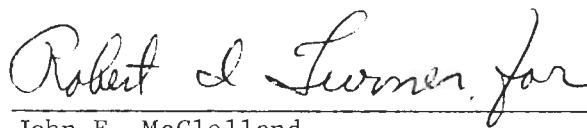
Signs and Symbols:

<u>Streams</u>	<u>Color</u>	<u>Symbol</u>	<u>Symbol Recommended for Publication</u>
Permanent	Blue		
Intermittent not crossable with farm machinery	Blue		
crossable with farm machinery	Blue		
Drainage end or alluvial fan	Blue		
Spring	Blue		
Wet Spot	Blue		
<u>Lakes, ponds and reservoirs</u>			
Perennial Small pond and lakes	Blue		
Dam	Black		
<u>Boundaries</u>			
Cemetery or small park	Black		
Work boundary	Green		eliminate
County line	Green		
Gravel pit	Black		
Pipe line (oil or gas)	Red		eliminate
Oil or gas storage tanks	Black		
Levee	Black		
Escarpment	Black		
Rock outcrop (✓ = 3 acres)	Black		

Signs and Symbols:

	<u>Color</u>	<u>Symbol</u>	<u>Symbol Recommended for Publication</u>
Gravel ( = 2 1/2 acres)	Black		
Sandspot ( = 5 acres)	Black		
Severely eroded spot ( = 5 acres or less)	Red		
Borrow pit wet areas use pond symbol dry areas	Black	 	 
Made land	black		
Muck ( = 2 1/2 acres)	Black		

Approved: June 15, 1971



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Classification and Correlation
of the Soils of
Hendricks County, Indiana

by
Robert I. Turner

1. BROOKSTON SERIES

Much of the soil in the Brookston mapping units is in the fine-silty family but very marginal to the fine-loamy family in which the Brookston series is placed. These differences are not significant in regards to the use and management of these soils. Those units in the fine-silty family are considered as taxadjuncts to the Brookston series.

2. CROSBY SERIES

The soils in this county contain both fine and fine-loamy argillic horizons in a variable and unpredictable pattern. The Crosier name is not being proposed in this county because the fine-loamy soils are commonly marginal to fine and thus are not good examples of the central concept of the tentative Crosier series. In this county, the fine-loamy units are considered as taxadjuncts to the Crosby series but are similar to it in management. The A and B slopes were combined because the total slope range was small and differences in slope did not appear significant for the present types of use and management. The 143A mapping units were not significantly different and were combined with the Crosby mapping unit.

3. FINCASTLE SERIES

The A and B slopes were combined because the total slope range was small and differences in slope did not appear significant for the present types of use and management.

4. GENESEE SERIES

Mapping units of Eel silt loam are combined because of lack of differences significant to use and management. The presence of mottles in some areas will be discussed in the description of the mapping unit as well as areas which are leached below depths of 40 inches.

5. MAHALASVILLE SERIES

The soils previously identified as Milford are named as a clayey subsoil variant of Mahalasville. The need for the Milford series requires some study and it seemed best not to use that name for the small acreage in this correlation.

6. OCKLEY SERIES

Some soils similar to the Ockley series except for thin sand and gravel deposits and the presence of loam glacial till within depths of 5 feet were identified as loamy substratum phases of the Ockley series.

Hendricks County, Indiana
by
Robert I. Turner .

<u>Soil Series</u>	<u>Classification</u>
Brookston	Typic Argiaquolls, fine-loamy, mixed, mesic
Crosby	Aeric Ochraqualfs, fine, mixed, mesic
Fincastle	Aeric Ochraqualfs, fine-silty, mixed, mesic (Typic)
Fox	Typic HapludalFs, fine-loamy over sandy or sandy-skeletal, mixed, mesic
Genesee	Fluventic Eutrochrepts, fine-loamy, mixed, mesic
Genesee Sandy variant	Dystic Fluventic Eutrochrepts, coarse-loamy, mixed, mesic (sandy)
Hennepin	Typic Eutrochrepts, fine-loamy, mixed, mesic
Mahalasville	Typic Argiaquolls, fine-silty, mixed, mesic
Mahalasville clayey subsoil variant	Typic Haplaquolls, fine, mixed, mesic
Martinsville	Typic HapludalFs, fine-loamy, mixed, mesic
Miami	Typic HapludalFs, fine-loamy, mixed, mesic
Ockley	Typic HapludalFs, fine-loamy, mixed, mesic
Ragsdale	Typic Argiaquolls, fine-silty, mixed, mesic
Rensselaer	Typic Argiaquolls, fine-loamy, mixed, mesic
Russell	Typic HapludalFs, fine-silty, mixed, mesic
Shoals	Aeric Fluvaquents, fine-loamy, mixed, nonacid, mesic
Whitaker	Aeric Ochraqualfs, fine-loamy, mixed, mesic
Xenia	Aquic HapludalFs, fine-silty, mixed, mesic